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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/035,366	12/28/2001	Gary E. Horst	EMER2618	2266

7590 02/19/2004

MICHAEL J. THOMAS
HARNESS, DICKEY & PIERCE
7700 Bonhomme Avenue
Suite 400
St. Louis, MO 63105

EXAMINER

NGUYEN, TRAN N

ART UNIT	PAPER NUMBER
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2834

DATE MAILED: 02/19/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Supplementary
Notice of Allowability

Application No.

10/035,366

Examiner

Tran N. Nguyen

Applicant(s)

HORST, GARY E.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 12.12/03.
2. ☐ The allowed claim(s) is/are 1,2 and 4-15.
3. ☒ The drawings filed on 28 December 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: _____.
5. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 - (a) ☐ The translation of the foreign language provisional application has been received.
6. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

7. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8. ☐ CORRECTED DRAWINGS must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No. _____.
 - (b) ☐ including changes required by the proposed drawing correction filed _____, which has been approved by the Examiner.
 - (c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the top margin (not the back) of each sheet. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

9. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1 <input type="checkbox"/> Notice of References Cited (PTO-892) | 2 <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3 <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 4 <input type="checkbox"/> Interview Summary (PTO-413), Paper No. _____ |
| 5 <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449), Paper No. _____ | 6 <input type="checkbox"/> Examiner's Amendment/Comment |
| 7 <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8 <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9 <input checked="" type="checkbox"/> Other <i>new reason for allowability</i> . |

DETAILED OFFICE ACTION

Regarding the applicant's COMMENTS ON STATEMENT OF REASONS FOR ALLOWANCE, filed 12/12/03. The Examiner concurs with the applicant's remark. Therefore the following is a new reason for allowability

Allowable Subject Matter

Claims 1-2, 4-15 are allowed.

Reason for Allowability

The following is an examiner's statement of reasons for allowance: the primary reason for the allowance is the including, in combination with other limitations recited in the claims 1, 2 and 4-10, the limitations of a stator for use in a permanent magnet machine having a stator comprising: *a frame having an outer peripheral edge and an inner peripheral edge extending about a central axis; a plurality of stator teeth each extending along a radial axis from the frame's inner peripheral edge toward the central axis; and at least one permanent magnet located entirely within one of the stator teeth; wherein said one permanent magnet has a pole surface oriented at an oblique angle relative to the radial axis along which said one of the stator teeth extends.*

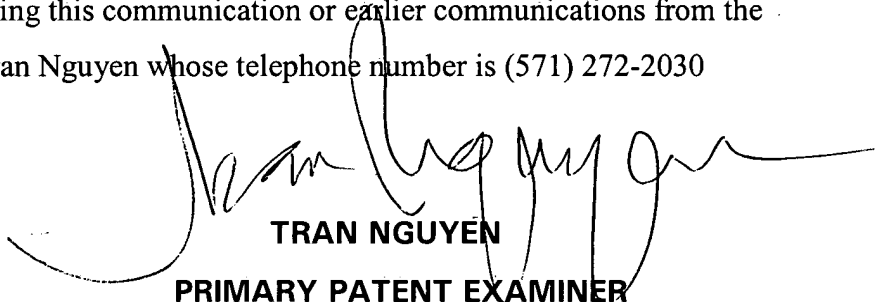
Also the reason for allowance, as recited in combination with other limitations recited in claims 11-15, the limitations of a stator for use in a permanent magnet machine, the stator comprising: *a frame having an outer peripheral edge and an inner peripheral edge extending about a central axis; a plurality of permanent magnets each having inwardly facing north poles; a first plurality of stator teeth each extending along a radial axis from the frame's inner peripheral edge toward the central axis, each of the first plurality of stator teeth having one of the permanent magnets located at least partly therein; and a second plurality of stator teeth extending from the frame's inner peripheral edge toward the central axis, the second plurality of stator teeth each having no permanent magnets located therein', wherein the first plurality of stator teeth are each positioned directly between two of the second plurality of stator teeth',*

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wherein the north poles of the permanent magnets are each oriented at an oblique angle relative to the radial axis along which its corresponding one of the stator teeth extends', wherein each permanent magnet and its corresponding one of the stator teeth have a width extending in a direction of rotation of a rotor when the rotor is mounted for rotation about the central axis; and wherein the width of each permanent magnet is greater than the width of its corresponding one of the stator teeth.

Comparing to the prior-art of the record, none of the prior art references of the record, either stand-alone or in combination, has taught or suggest the above-mentioned features in combination with other limitations recited in the claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance." Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tran Nguyen whose telephone number is (571) 272-2030



TRAN NGUYEN
PRIMARY PATENT EXAMINER

TC-2800